

FILE ID**NDXXTN

L 1

NN NN DDDDDDDDD XX XX XX XX TTTTTTTTTT NN NN
NN NN DDDDDDDDD XX XX XX XX TTTTTTTTTT NN NN
NN NN DD DD DD XX XX XX XX TT NN NN
NN NN DD DD DD XX XX XX XX TT NN NN
NNNN NN DD DD DD XX XX XX XX TT NN NN
NNNN NN DD DD DD XX XX XX XX TT NN NN
NN NN NN DD DD XX XX XX XX TT NN NN
NN NN NN DD DD XX XX XX XX TT NN NN
NN NNNN DD DD DD XX XX XX XX TT NN NN
NN NNNN DD DD DD XX XX XX XX TT NN NN
NN NN NNNN DD DD XX XX XX XX TT NN NN
NN NN NNNN DD DD XX XX XX XX TT NN NN
NN NN DD DD XX XX XX XX TT NN NN
NN NN DD DD XX XX XX XX TT NN NN
NN NN DDDDDDDDD XX XX XX XX TT NN NN
NN NN DDDDDDDDD XX XX XX XX TT NN NN

NDX
V04

卷之三

```
0001 0 MODULE NDXXTN (IDENT = 'VO4-000'  
0002 0 XBLISS32 [, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE, NONEXTERNAL = LONG_RELATIVE)]  
0003 0 ) =  
0004 1 BEGIN  
0005 1 *****  
0006 1 *  
0007 1 *  
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0025 1 *  
0026 1 *  
0027 1 *****  
0028 1  
0029 1 ++  
0030 1 FACILITY:  
0031 1 DSR (Digital Standard RUNOFF) /DSRPLUS DSRINDEX/INDEX Utility  
0032 1  
0033 1 ABSTRACT: Routines for processing transaction numbers.  
0034 1  
0035 1  
0036 1 ENVIRONMENT: Transportable  
0037 1  
0038 1 AUTHOR: RWF  
0039 1  
0040 1 CREATION DATE: January, 1979  
0041 1  
0042 1 MODIFIED BY:  
0043 1  
0044 1 004 JPK00015 04-Feb-1983  
0045 1 Cleaned up module names, modified revision history to  
0046 1 conform with established standards. Updated copyright dates.  
0047 1  
0048 1 003 JPK00012 24-Jan-1983  
0049 1 Modified NDXXVMSMSG.MSG to define error messages for both  
0050 1 DSRINDEX and INDEX.  
0051 1 Added require of NDXXVMSREQ.R32 to NDXXOUT, NDXXFMT, NDXXDAT,  
0052 1 INDEX, NDXXMSG, NDXXTN, NDXXTMS, NDXXVMS and NDXXPAG for BLISS32.  
0053 1 Since this file defines the error message literals,  
0054 1 the EXTERNAL REFERENCES for the error message literals  
0055 1 have been removed.  
0056 1  
0057 1 002 JPK00008 19-Nov-1982
```

58 0058 1 | Changed name of POOL.REQ to DMDEFS.REQ in NDXXTN.
59 0059 1 |
60 0060 1 | --
61 0061 1 |
62 0062 1 |
63 0063 1 | TABLE OF CONTENTS:
64 0064 1 |
65 0065 1 |
66 0066 1 FORWARD ROUTINE
67 0067 1 ASGXTN : NOVALUE,
68 0068 1 XTNPAG;
69 0069 1 |
70 0070 1 |
71 0071 1 | INCLUDE FILES:
72 0072 1 |
73 0073 1 |
74 0074 1 LIBRARY 'NXPORT:XPORT';
75 0075 1 |
76 0076 1 SWITCHES LIST (REQUIRE);
77 0077 1 |
78 0078 1 REQUIRE 'REQ:PAGEN';

R0079 1

Version: 'V04-000'

R0080 1

R0081 1

R0082 1

R0083 1

R0084 1

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R0085 1

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R0087 1

R0088 1

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R0089 1

R0090 1

R0091 1

R0092 1

R0093 1

R0094 1

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R0099 1

R0100 1

R0101 1

R0102 1

R0103 1

R0104 1

R0105 1

R0106 1

++
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

R0107 1

ABSTRACT:

A page number carries with it not only its current value, but also
codes as to how those values are to be displayed when they are finally
output. It was decided to do it this way rather than have a separate
table so that the program TCX would have less trouble.

R0108 1

ENVIRONMENT: Transportable BLISS

R0109 1

AUTHOR: Rich Friday

R0110 1

CREATION DATE: 1978

R0111 1

MODIFIED BY:

R0112 1

004 KAD00004 Keith Dawson 07-Mar-1983

Global edit of all modules. Updated module names, idents,
copyright dates. Changed require files to BLISS library.

R0113 1

R0114 1

R0115 1

R0116 1

R0117 1

R0118 1

R0119 1

R0120 1

R0121 1

R0122 1

LITERAL
page_sct_size = 4;

R0123 1

R0124 1

R0125 1

R0126 1

R0127 1

R0128 1

R0129 1

R0130 1

R0131 1

R0132 1

LITERAL
sct_chapt = 1.
sct_index = 2.
sct_append = 3;Type of section:
Chapter section.
Index section.
Appendix section.

```
R0136 1
R0137 1 LITERAL
R0138 1     sct_low      = 1:           ! Lowest section type key.
R0139 1     sct_high     = 3:           ! Highest section type key.
R0140 1
R0141 1 MACRO
R0142 1     sct_typ      = 0, 0,      4,      0 %: ! Section Type (zero if none).
R0143 1     sct_page_d   = 0, 4,      4,      0 %: ! Display code for page number.
R0144 1     sct_sub_page = 0, %BPVAL/2, %BPVAL/2, 0 %: ! Subpage, if any (zero if none).
R0145 1     sct_number   = 1, 0,      %BPVAL, 0 %: ! Type of section number.
R0146 1     sct_page    = 2, 0,      %BPVAL, 0 %: ! Page number.
R0147 1     sct_subpg_d = 3, 0,      4,      0 %: ! Display code for subpages.
R0148 1     sct_chapt_d  = 3, 4,      4,      0 %: ! Display code for chapters.
R0149 1     sct_appen_d = 3, 8,      4,      0 %: ! Display code for appendices.
R0150 1     sct_index_d = 3, 12,     4,      0 %: ! Display code if indexes.
R0151 1
R0152 1 MACRO
R0153 1     sct_run_page = 3, %BPVAL/2, %BPVAL/2, 0 %: ! Running page number.
R0154 1
R0155 1 MACRO
R0156 1     page_definition = BLOCK [page_sct_size] %;
R0157 1
R0158 1 !           End of PAGEN.REQ
```

NDXXTN
V04-000

79
80

0159 1
0160 1 REQUIRE 'REQ:DMDEFS';

D 2
16-Sep-1984 01:16:01
14-Sep-1984 13:07:23

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]NDXXTN.BLI:1

Page 5
(1)

NDXX
V04-

R0161 1
R0162 1 Version: 'V04-000'
R0163 1
R0164 1 *****
R0165 1 *
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R0183 1 *
R0184 1 *
R0185 1 * *****
R0186 1 *
R0187 1 *
R0188 1 **
R0189 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
R0190 1
R0191 1 ABSTRACT:
R0192 1 Defines literals and macros used in defining, controlling, and
R0193 1 accessing the dynamic memory pool.
R0194 1
R0195 1 ENVIRONMENT: Transportable BLISS
R0196 1
R0197 1 AUTHOR: Rich Friday
R0198 1
R0199 1 CREATION DATE: 1978
R0200 1
R0201 1 MODIFIED BY:
R0202 1
R0203 1 004 KAD00004 Keith Dawson 07-Mar-1983
R0204 1 Global edit of all modules. Updated module names, idents,
R0205 1 copyright dates. Changed require files to BLISS [library].
R0206 1
R0207 1 --
R0208 1
R0209 1
R0210 1 MACRO Structures defining information stored in a dynamic memory pool.
R0211 1
R0212 1
R0213 1
R0214 1
R0215 1 LITERAL
R0216 1
R0217 1
; R0217 1
POOL = VECTOR [POOL_CNTRL_SIZE] %;
PAD = VECTOR [PAD_CNTRL_SIZE] %;
POOL_CNTRL_SIZE = 3; !Size of POOL control area.
PAD_CNTRL_SIZE = 2; !Size of a Pooled Area Descriptor.

```
R0218 1 !  
R0219 1 LITERAL Offsets into pool control area (POOL) and pool area descriptor (PAD).  
R0220 1  
R0221 1  
R0222 1  
R0223 1  
R0224 1  
R0225 1  
R0226 1  
R0227 1  
R0228 1 ! The GET_SEG_ADDR macro returns the starting address of a segment from the  
R0229 1 ! specified pool.  
R0230 1  
MR0231 1 MACRO  
MR0232 1 GET_SEG_ADDR(AREA,INDEX) =  
MR0233 1 BEGIN  
MR0234 1 LOCAL  
MR0235 1 PADTAB : REF VECTOR;  
MR0236 1 PADTAB = .AREA+POOL_CTRL_SIZE*%UPVAL;  
MR0237 1 .PADTAB[PAD_CTRL_SIZE*(INDEX-1)+PAD_ADDRESS]  
R0238 1 END  
R0239 1  
R0240 1 X:  
! End of DMDEFS.REQ
```

NDXXTN
V04-000

: 81
: 82

0241 1
0242 1 REQUIRE 'REQ:XTNTAB';

G 2
16-Sep-1984 01:16:01
14-Sep-1984 13:07:23

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]NDXXTN.BLI;1

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NDXX
V04-

R0243
R0244
R0245
R0246
R0247
R0248
R0249
R0250
R0251
R0252
R0253
R0254
R0255
R0256
R0257
R0258
R0259
R0260
R0261
R0262
R0263
R0264
R0265
R0266
R0267
R0268
R0269
R0270
R0271
R0272
R0273
R0274
R0275
R0276
R0277
R0278
R0279
R0280
R0281
R0282
R0283
R0284
R0285
R0286
R0287
R0288
R0289
R0290
R0291
R0292
R0293
R0294
R0295
R0296
R0297
R0298
R0299

1 Version: 'V04-000'

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** FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

** ABSTRACT:
Parallel tables for associating index entries and pages.

** NOTE: The tables contain one extra entry, which is unused.
That is so subtraction of 1 can be forgotten about.

** ENVIRONMENT: Transportable BLISS

** AUTHOR: Rich Friday

** CREATION DATE: 1978

** MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983
Global edit of all modules. Updated module names, idents,
copyright dates. Changed require files to BLISS library.

--
** LITERAL

max_xtn_count = 100, !Maximum number of transaction numbers (condensed).

!Number of BLISS values in a set of pages.

xtn_pagtab_size = (max_xtn_count + 1) * page_sct_size.

```
R0300 1 !Number of BLISS values in a list of transaction numbers.  
R0301 1 xtn_xtntab_size = max_xtn_count + 1;  
R0302 1  
R0303 1  
R0304 1 MACRO  
R0305 1 xtntab_define = VECTOR [xtn_xtntab_size] %,  
R0306 1 xpagen_define = BLOCKVECTOR [max_xtn_count + 1, page_sct_size] %;  
R0307 1  
R0308 1 ! End of XTNTAB.REQ
```

NDXXTN
V04-000

16-Sep-1984 01:16:01 2
14-Sep-1984 13:07:23 VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]NDXXTN.BLI;1

Page 11
(1)

83 0309 1
84 L 0310 1 XIF XBLISS (BLISS32)
85 0311 1 XTHEN
86 0312 1
87 0313 1 REQUIRE 'REQ:NDXVMSREQ':

NDXX
V04-

: Re

: 2

R0314 1
R0315 1
R0316 1
R0317 1
R0318 1
R0319 1
R0320 1
R0321 1
R0322 1
R0323 1
R0324 1
R0325 1
R0326 1
R0327 1
R0328 1
R0329 1
R0330 1
R0331 1
R0332 1
R0333 1
R0334 1
R0335 1
R0336 1
R0337 1
R0338 1
R0339 1
R0340 1
R0341 1
R0342 1
R0343 1
R0344 1
R0345 1
R0346 1
R0347 1
R0348 1
R0349 1
R0350 1
R0351 1
R0352 1
R0353 1
R0354 1
R0355 1
R0356 1
R0357 1
R0358 1
R0359 1
R0360 1
R0361 1
R0362 1
R0363 1
R0364 1
R0365 1
R0366 1
R0367 1
R0368 1
R0369 1
R0370 1

Version: 'V04-000'

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++
FACILITY:
DSR (Digital Standard RUNOFF) /DSRPLUS DSRINDEX/INDEX Utility

ABSTRACT:
This file contains external references to the error message numbers
for DSRINDEX/INDEX.

New messages must be defined in NDXVMSMSG.MSG and referenced here:
both in the MACRO section (for DSRINDEX) and the EXTERNAL LITERAL
section (for INDEX)

ENVIRONMENT: VAX/VMS User Mode

AUTHOR: JPK

CREATION DATE: 01-Feb-1983

MODIFIED BY:

004 JPK00022 30-Mar-1983
Modified NDXVMS, NDXFMT, NDXPAG, NDXVMSMSG and NDXVMSREQ
to generate TEX output. Added module NDXTEX.

003 JPK00021 28-Mar-1983
Modified NDXT20 to include E2.0 functionality.
Modified NDXCLIDMP, NDXFMT, NDXPAG, NDXVRS to require RNODEF
for BLISS36 and to remove any conditional require based on
DSRPLUS_DEF.

NDXXTN
V04-000

L 2
16-Sep-1984 01:16:01 VAX-11 Bliss-32 V4.0-742
15-Sep-1984 22:53:32 [RUNOFF.SRC]NDXVMSREQ.R32;1

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(1)

R0371 1
R0372 1
R0373 1
R0374 1
R0375 1
R0376 1
R0377 1

002

JPK00010 04-Feb-1983
Cleaned up module names, modified revision history to
conform with established standards. Updated copyright dates.

!--
REQUIRE 'REQ:RNODEF';

NDXX
V04-

R0378 1
R0379 1 Version: 'V04-000'
R0380 1
R0381 1
R0382 1
R0383 1
R0384 1
R0385 1
R0386 1
R0387 1
R0388 1
R0389 1
R0390 1
R0391 1
R0392 1
R0393 1
R0394 1
R0395 1
R0396 1
R0397 1
R0398 1
R0399 1
R0400 1
R0401 1
R0402 1
R0403 1
R0404 1
R0405 1
R0406 1
R0407 1
R0408 1
R0409 1
R0410 1
R0411 1
R0412 1
R0413 1
R0414 1
R0415 1
R0416 1
R0417 1
R0418 1
R0419 1
R0420 1
R0421 1
R0422 1
R0423 1
R0424 1
R0425 1
R0426 1
R0427 1
R0428 1
R0429 1
R0430 1
R0431 1
R0432 1
R0433 1
R0434 1

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++
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
ABSTRACT:
Converts BLISS/VARIANT values into useful names.
ENVIRONMENT: Transportable BLISS
AUTHOR: Rich Friday
CREATION DATE: 1978
MODIFIED BY:
016 KAD00016 Ray Marshall 19-Mar-1984
Added GERMAN, FRENCH, & ITALIAN.
015 KAD00015 Keith Dawson 18-Apr-1983
Made the LN01 conditional the default for vanilla DSR --
its value is 0 (no variant supplied).
014 KAD00014 Keith Dawson 22-Mar-1983
Asserted the LN01 conditional when DSRPLUS is asserted.
013 KAD00013 Keith Dawson 20-Mar-1983
Removed all references to .BIX and .BTC files.
012 KAD00012 Keith Dawson 07-Mar-1983
Global edit of all modules. Updated module names, idents,
copyright dates. Changed require files to BLISS library.

```
R0435 1
R0436 1
R0437 1
R0438 1
R0439 1
R0440 1
R0441 1
R0442 1
R0443 1
R0444 1
R0445 1
R0446 1
R0447 1
R0448 1
R0449 1
R0450 1
R0451 1
R0452 1
R0453 1
R0454 1
R0455 1
R0456 1
R0457 1
R0458 1
R0459 1
R0460 1
R0461 1
R0462 1
R0463 1
R0464 1
R0465 1
R0466 1
R0467 1
R0468 1
R0469 1
R0470 1
R0471 2
R0472 1
R0473 1
R0474 1
R0475 1
R0476 1
R0477 1
R0478 1
R0479 1
R0480 1
R0481 2
R0482 1
R0483 1
R0484 1
R0485 1
R0486 1
R0487 1
R0488 1
R0489 1
R0490 1
R0491 1

--  
++  DEFINITION OF /VARIANT BITS  
The bit assignments are as follows:  
Bit  Weight  Meaning  
-----  
--    0        If no /VARIANT is supplied (as for vanilla DSR),  
       compile with LN01 support. LN01 support is also  
       implied by the DSRPLUS variant.  
0     1        CLEAR = Unassigned  
           SET  = Unassigned  
1     2        CLEAR = Normal compile  
           SET  = Compile for DSRPLUS  
4-6   16       CLEAR = English (American) version  
           SET  = 16 = German (Austrian)  
           32 = French  
           48 = Italian  
--  
-----  
This variable (LN01) controls whether or not to compile an LN01-flavored  
DSR. It is asserted by default, and also whenever DSRPLUS is asserted.  
Modules utilizing LN01 are:  
DOOPTS NOUT  
COMPILETIME  
ln01 =  
( (%VARIANT EQL 0) OR %VARIANT/2 )  
:  
-----  
This variable (DSRPLUS) controls compilation for the DSRPLUS program.  
All modules utilize DSRPLUS.  
COMPILETIME  
dsrplus =  
( %VARIANT/2 )  
:  
-----  
This variable (FLIP) controls compilation of FLIP features of DSRPLUS.  
It assures that FLIP features are compiled only on VMS systems.  
Modules utilizing FLIP are many and various.  
COMPILETIME  
flip =
```

R0492 2 (%VARIANT/2 AND %BLISS(BLISS32))
R0493 1 ;
R0494 1
R0495 1
R0496 1
R0497 1
R0498 1
R0499 1
R0500 1
R0501 1
R0502 1
R0503 1
R0504 1
R0505 1
R0506 1
R0507 1

4-6 16 CLEAR = English (American) version
SET = 16 = German (Austrian)
32 = French
48 = Italian
COMPILETIME
German = (%VARIANT/16 AND NOT %VARIANT/32 AND NOT %VARIANT/64) ;
COMPILETIME
French = (NOT %VARIANT/16 AND %VARIANT/32 AND NOT %VARIANT/64) ;
COMPILETIME
Italian = (%VARIANT/16 AND %VARIANT/32 AND NOT %VARIANT/64) ;

End of RNODEF.REQ

11

EXTERNAL LITERAL

INDEX\$-BADLOGIC,	<internal logic error detected>
INDEX\$-BADVALUE,	<'!AS' is an invalid keyword value>
INDEX\$-INSVIRMEM,	<insufficient virtual memory>
INDEX\$-LINELENG,	<maximum line length is 120>
INDEX\$-NOREF,	<page reference not found>
INDEX\$-OPENIN,	<error opening '!AS' for input>
INDEX\$-OPENOUT,	<error opening '!AS' for output>
INDEX\$-TOOMANY,	<too many values supplied>
INDEX\$-VALERR,	<specified value is out of legal range>
INDEX\$-CANTBAL,	<can't balance last page>

R0565 1 INDEX\$ CLOSEQUOT,
R0566 1 INDEX\$ CONFQUAL,
R0567 1 INDEX\$ CTRLCHAR,
R0568 1 INDEX\$ DOESNTFIF,
R0569 1 INDEX\$ DUPBEGIN,
R0570 1 INDEX\$ EMPTYIN,
R0571 1 INDEX\$ IGNORED,
R0572 1 INDEX\$ INVINPUT,
R0573 1 INDEX\$ INVRECORD,
R0574 1 INDEX\$ LASTCONT,
R0575 1 INDEX\$ NOBEGIN,
R0576 1 INDEX\$ NOEND,
R0577 1 INDEX\$ NOINDEX,
R0578 1 INDEX\$ NOLIST,
R0579 1 INDEX\$ OVERSTRK,
R0580 1 INDEX\$ SKIPPED,
R0581 1 INDEX\$ SYNTAX,
R0582 1 INDEX\$ TEXFILE,
R0583 1 INDEX\$ TOODEEP,
R0584 1 INDEX\$ TOOFEW,
R0585 1 INDEX\$ TRUNCATED,
R0586 1 INDEX\$ COMPLETE,
R0587 1 INDEX\$ CREATED,
R0588 1 INDEX\$ IDENT,
R0589 1 INDEX\$ PROCFILE,
R0590 1 INDEX\$ TEXT,
R0591 1 INDEX\$ TEXTD,
R0592 1 INDEX\$ TMS11:
| <missing close quote>
| <conflicting qualifiers>
| <the following line contains control characters - ignored>
| <'!AD' will not fit at the current indentation level>
| <duplicate .XPLUS (BEGIN) - inserted as .XPLUS ()>
| <empty input file '!AS'>
| <'!AS' ignored>
| <invalid input file format in file '!AS'>
| <invalid record type in file '!AS'>
| <can't generate continuation heading on last page>
| <.XPLUS (END) with no .XPLUS (BEGIN) - inserted as .XPLUS ()>
| <.XPLUS (BEGIN) has no corresponding .XPLUS (END)>
| <no index information in file '!AS'>
| <parameter list not allowed>
| <the following line contains an overstrike sequence>
| <!UL reference!XS inside page range - ignored>
| <error parsing '!AS'>
| <error processing line !UL of TEX character file '!AS'>
| <maximum subindex depth exceeded>
| <not enough values supplied>
| <string too long - truncated>
| <processing complete '!AS'>
| <'!AS' created>
| <INDEX version !AD>
| <processing file '!AS'>
| <!AS>
| <entry text: '!AD'>
| <output file full - continuing with file '!AS'>

88 0594 1 XFI
89 0595 1
90 0596 1
91 0597 1 SWITCHES LIST (NOREQUIRE);
92 0598 1
93 0599 1
94 0600 1
95 0601 1
96 0602 1
97 0603 1
98 0604 1
99 0605 1
100 0606 1 LITERAL
101 0607 1 TRUE = 1,
102 0608 1 FALSE = 0,
103 0609 1 XTN_MAX_SEGS = 100;
104 0610 1
105 0611 1
106 0612 1
107 0613 1 OWN STORAGE:
108 0614 1
109 0615 1
110 0616 1 EXTERNAL REFERENCES:
111 0617 1
112 0618 1
113 0619 1 EXTERNAL
114 0620 1 XPAGEN : REF XPAGEN_DEFINE,
115 0621 1 XTN_CNT,
116 0622 1 XTN_LSP : REF PAGE_DEFINITION,
117 0623 1 XTN_LSX : REF VECTOR [XTN_MAX_SEGS + 1],
118 0624 1 XTN_POL : REF POOL,
119 0625 1 XTN_SGP : REF BLOCK,
120 0626 1 XTN_TAB : REF XTNTAB_DEFINE;
121 0627 1
122 0628 1 EXTERNAL ROUTINE
123 0629 1 GPOOL,
124 0630 1 PAGEQL,
125 0631 1 XPOOL;
126 0632 1

111

128 0633 1 GLOBAL ROUTINE ASGXTN (PAGE, TRANSACTION) : NOVALUE = !
129 0634 1
130 0635 1 !++
131 0636 1 FUNCTIONAL DESCRIPTION:
132 0637 1
133 0638 1 Associates the current page number with a transaction
134 0639 1 number range.
135 0640 1
136 0641 1 FORMAL PARAMETERS:
137 0642 1
138 0643 1 PAGE indicates which page number is to be attached to
139 0644 1 the index entry.
140 0645 1 TRANSACTION, if not zero, is the highest transaction number
141 0646 1 to be associated with the given PAGE.
142 0647 1
143 0648 1 IMPLICIT INPUTS:
144 0649 1
145 0650 1
146 0651 1
147 0652 1 IMPLICIT OUTPUTS:
148 0653 1
149 0654 1 Implicit in this routine is the compression of the list of
150 0655 1 transaction numbers for a single page. Note that before
151 0656 1 the document page number is copied, a check is made to
152 0657 1 see if the previous transaction number refers to something
153 0658 1 on the same page. If that is the case, then no copy of the
154 0659 1 page number is made.
155 0660 1 This fact is important for the operation of the MODULE
156 0661 1 XPRT, which prints the index entries later.
157 0662 1 If the compression is not made, that module assumes that
158 0663 1 there are distinct pages having the same number; subsequently,
159 0664 1 it won't merge page numbers with 'to' or '-' correctly.
160 0665 1
161 0666 1 ROUTINE VALUE:
162 0667 1 COMPLETION CODES:
163 0668 1
164 0669 1
165 0670 1
166 0671 1 SIDE EFFECTS:
167 0672 1
168 0673 1
169 0674 1
170 0675 1 --
171 0676 1
172 0677 2 BEGIN
173 0678 2
174 0679 2 MAP
175 0680 2 PAGE : REF PAGE_DEFINITION;
176 0681 2
177 0682 2 LOCAL
178 0683 2 MERGE;
179 0684 2
180 0685 2 !Is this trip necessary??
181 0686 2
182 0687 2 IF
183 0688 2 TRANSACTION EQL 0
184 0689 2 THEN !
185

185 0690 2
186 0691
187 0692
188 0693
189 0694
190 0695
191 0696
192 0697
193 0698
194 0699
195 0700
196 0701
197 0702
198 0703
199 0704
200 0705
201 0706
202 0707
203 0708
204 0709
205 0710
206 0711
207 0712
208 0713
209 0714
210 0715
211 0716
212 0717
213 0718
214 0719
215 0720
216 0721
217 0722
218 0723
219 0724
220 0725
221 0726
222 0727
223 0728
224 0729
225 0730
226 0731
227 0732
228 0733
229 0734
230 0735
231 0736
232 0737
233 0738
234 0739
235 0740
236 0741
237 0742
238 0743
239 0744
240 0745
241 0746 3

RETURN;
!The first time through this code, initialize the pool.
IF .XTNPOL EQ 0 !First time through?
THEN
BEGIN
!First, allocate the pool itself.
!(Extra slot gets pointer to XTNLSX segment.)
GPOOL (XTNPOL, XTN_MAX_SEGS + 1);
!Now, allocate space for XTNLSX.
!(Extra slot avoids having to subtract 1 all the time).
XTNLSX = XPOOL (XTNPOL, XTN_MAX_SEGS + 1);
END;
At this point at least a pool exists for saving the
segment information. However, the current segment, wherein
the transaction numbers and associated pages reside,
may be full, or even not yet allocated.
In preparation for merging, see if the current page number and
last referenced page number are the same.
IF .XTNLSP EQ 0 !
THEN
!There is no last page.
MERGE = FALSE
ELSE
!Compare the two page numbers, taking display characteristics into account.
MERGE = PAGEQL (.XTNLSP, .PAGE, TRUE);
IF .MERGE !
THEN
!The transaction numbers refer to the same page of the
document. Just record the new highest transaction number.
BEGIN
XTNTAB [.XTNCNT] = .TRANSACTION; !Record transaction in table, permanently.
XTNLSX [.XTNPOL [POOL_ACT_PADS]] = .TRANSACTION; !Remember it for next time around.
RETURN;
END;
The new transaction number does not refer to the last
page, so no merge was possible. Allocate a new segment
if the current segment is either full, or else doesn't
exist.
IF .XTNSGP EQ 0 !Any segment at all yet?
OR (.XTNCNT GEQ MAX_XTN_COUNT) !Current segment full?
THEN
BEGIN
!Allocate a new segment.
!Note that the transaction numbers and page numbers
are saved in the same segment.
XTNSGP = XPOOL (XTNPOL, XTN_XTNTAB_SIZE + XTN_PAGTAB_SIZE);
!Make sure that a segment could be allocated.
IF !

```

242 0747 4 .XTNSGP EQL 0 OR (.XTNLSX EQL 0) !Catch no XTNLSX space here.
243 0748 4 THEN !The requested amount could not be allocated (pool full)
244 0749 4 BEGIN
245 0750 4 XIF XBLISS (BLISS32)
246 L 0751 4 XTHEN ! Signal errors for BLISS32
247 0752 4 SIGNAL_STOP (INDEXS_INSVIRMEM);
248 0753 4
249 0754 4
250 0755 4
251 U 0756 4 XELSE ! Use SXPO_PUT_MSG otherwise
252 U 0757 4
253 U 0758 4 SXPO_PUT_MSG (SEVERITY = FATAL,
254 U 0759 4 STRING = 'can''t extend transaction pool.');
255 U 0760 4
256 0761 4 XFI
257 0762 4
258 0763 4 RETURN;
259 0764 4 END;
260 0765 4
261 0766 4 XTNCNT = 0; !No transaction numbers in this segment yet.
262 0767 4 XTNTAB = .XTNSGP; !Transaction table is at start of segment.
263 0768 4 !Page numbers are saved after transaction numbers.
264 0769 4 XPAGEN = .XTNSGP + XTN_XTNTAB_SIZE*XUPVAL;
265 0770 4 END;
266 0771 4
267 0772 4 !At this point, there is definitely a spot free to save the
268 0773 4 transaction number and the associated page number.
269 0774 4 !That slot is the one AFTER the previous slot.
270 0775 4 XTNCNT = .XTNCNT + 1; !New transaction number slot.
271 0776 4 XTNTAB [0] = .XTNCNT; !Remember count in this list.
272 0777 4 XTNLSP = XPAGEN [.XTNCNT, SCT_TYP]; !Remember where this page is.
273 0778 4 BEGIN
274 0779 4 BIND
275 0780 4 COPY = XPAGEN [.XTNCNT, 0,0,0,0] : VECTOR; !Mak. these structures
276 0781 4 MAP !vectors so that
277 0782 4 PAGE : REF VECTOR; !copying is easier.
278 0783 4 ...
279 0784 4 !Copy items one by one.
280 0785 4 INCR I FROM 0 TO (PAGE SCT_SIZE -1) DO
281 0786 4 COPY [.] = .PAGE [.];
282 0787 4 END;
283 0788 4 XPAGEN [.XTNCNT, SCT_TYP] = .PAGE [SCT_TYP]; !Save this page number.
284 0789 4 XPAGEN [.XTNCNT, SCT_SUB PAGE] = .PAGE [SCT SUB PAGE]; ...
285 0790 4 XPAGEN [.XTNCNT, SCT_NUMBER] = .PAGE [SCT NUMBER]; ...
286 0791 4 XPAGEN [.XTNCNT, SCT_PAGE] = .PAGE [SCT PAGE]; ...
287 0792 4 XPAGEN [.XTNCNT, SCT_DISPLAY] = .PAGE [SCT DISPLAY]; ...
288 0793 4 XTNTAB [.XTNCNT] = .TRANSACTION; !Record transaction in table, permanently.
289 0794 4 XTNLSX [.XTNPOL [POOL_ACT_PADS]] = .TRANSACTION; !Remember it for next time around.
290 0795 4 END; !End of ASGXTN

```

```

.TITLE NDXXTN
.IDENT \V04-000\

.EXTRN DSRINDEXS_BADLOGIC
.EXTRN DSRINDEXS_BADVALUE
.EXTRN DSRINDEXS_INSVIRMEM

```

.EXTRN DSRINDEX\$_LINEENG
 .EXTRN DSRINDEX\$_NOREF
 .EXTRN DSRINDEX\$_OPENIN
 .EXTRN DSRINDEX\$_OPENOUT
 .EXTRN DSRINDEX\$_TOOMANY
 .EXTRN DSRINDEX\$_VALERR
 .EXTRN DSRINDEX\$_CANTBAL
 .EXTRN DSRINDEX\$_CLOSEQUOT
 .EXTRN DSRINDEX\$_CONFQUAL
 .EXTRN DSRINDEX\$_CTRLCHAR
 .EXTRN DSRINDEX\$_DOESNTFIT
 .EXTRN DSRINDEX\$_DUPBEGIN
 .EXTRN DSRINDEX\$_EMPTYIN
 .EXTRN DSRINDEX\$_IGNORED
 .EXTRN DSRINDEX\$_INVINPUT
 .EXTRN DSRINDEX\$_INVRECORD
 .EXTRN DSRINDEX\$_LASTCONT
 .EXTRN DSRINDEX\$_NOBEGIN
 .EXTRN DSRINDEX\$_NOEND
 .EXTRN DSRINDEX\$_NOINDEX
 .EXTRN DSRINDEX\$_NOLIST
 .EXTRN DSRINDEX\$_OVERSTRK
 .EXTRN DSRINDEX\$_SKIPPED
 .EXTRN DSRINDEX\$_SYNTAX
 .EXTRN DSRINDEX\$_TEXFILE
 .EXTRN DSRINDEX\$_TOODEEP
 .EXTRN DSRINDEX\$_TOOFEW
 .EXTRN DSRINDEX\$_TRUNCATED
 .EXTRN DSRINDEX\$_COMPLETE
 .EXTRN DSRINDEX\$_CREATED
 .EXTRN DSRINDEX\$_IDENT
 .EXTRN DSRINDEX\$_PROCFILE
 .EXTRN DSRINDEX\$_TEXT, DSRINDEX\$_TEXTD
 .EXTRN DSRINDEX\$_TMS1{
 .EXTRN XPAGE, XTCNT, XTNLSP
 .EXTRN XTNLSX, XTNPOL, XTNSGP
 .EXTRN XTNTAB, GPOOL, PAGEQL
 .EXTRN XPOOL

.PSECT SCODES,NOWRT,2

	OFFC 00000			
5B	00000000G	EF	9E 00002	.ENTRY ASGXTN, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,- : 0633
5A	00000000G	EF	9E 00009	MOVAB XPAGE, R11
59	00000000G	EF	9E 00010	MOVAB XTNLSP, R10
58	00000000G	EF	9E 00017	MOVAB XPOOL, R9
57	00000000G	EF	9E 0001E	MOVAB XTNLSX, R8
56	00000000G	EF	9E 00025	MOVAB XTNSGP, R7
55	00000000G	EF	9E 0002C	MOVAB XTNTAB, R6
54	00000000G	EF	9E 00033	MOVAB XTNPOL, R5
53	08	AC	00 0003A	MOVAB XTCNT, R4
		01	12 0003E	MOVL TRANSACTION, R3
		04	00040	BNEQ 1S
		65	D5 00041	1S: RET
		19	12 00043	TSTL XTNPOL
7E	65	8F	9A 00045	BNEQ 2S
				MOVZBL #101, -(SP) : 0699

00000000G	EF		65	55 02 8F 55 02 8F 69 68 51	DD 00049 0004B 00052 00056 00058 0005B 0005E 00061 00063 00065 00067 00069 0006C	PUSHL CALLS MOVZBL PUSHL CALLS MOVZBL PUSHL MOVZBL BNEQ CLRL BRB PUSHL PUSHL PUSHL CALLS BLBC MOVL MOVL BRB TSTL BEQL CMPL BLSS	R5 #2, GPOOL #101, -(SP) R5 #2, XPOOL R0, XTNLSX R1 38 MERGE 48 #1 PAGE R1 #3, PAGEQL MERGE, 58 XTNCF, R0 R3, XTNTAB[R0] 11\$ XTNSGP 68 XTNCNT, #100 #505, -(SP) R5 #2, XPOOL R0, XTNSGP 78 XTNLSX 88 #DSRINDEXS, INSVIRMEM #1, LIBSTOP	0702
			04	51 03 50 64 53 5F 67 09 64 2E 8F 55 02 50 04 68 0E	DD 0006E FB 00075 00078 0007B 11 00080 00082 13 00084 00086 19 0008D 00094 FB 00096 00099 13 0009C 0009E 12 000A0	CALLS #3, PAGEQL MERGE, 58 XTNCF, R0 R3, XTNTAB[R0] 11\$ XTNSGP 68 XTNCNT, #100 #505, -(SP) R5 #2, XPOOL R0, XTNSGP 78 XTNLSX 88 #DSRINDEXS, INSVIRMEM #1, LIBSTOP	0713	
00000000G	EF	0A		03 50	DD 0006E FB 00075	CALLS BLBC	#3, PAGEQL MERGE, 58	0722
00 B640		50		64 53	DD 00078 0007B	MOVL MOVL	XTNCNT, R0 R3, XTNTAB[R0]	0727
				5F 67	11 00080 00082	BRB TSTL BEQL CMPL	11\$ XTNSGP XTNCNT, #100 #505, -(SP)	0728
00000064	8F			09 04	13 00084 00086	BLSS	XTNCNT, #100	0736
		7E	01F9	2E 8F	19 0008D 3C 0008F	MOVZWL PUSHL	#505, -(SP)	0737
				55 02	0008F 00094	PUSHL CALLS	R5	0743
				50 04	FB 00096	CALLS MOVZWL	#2, XPOOL R0, XTNSGP	0747
				68 06	00099 13 0009C	MOVL BEQL	78	
				0E 08	0009E	TSTL BNEQ	XTNLX 88	0754
00000000G	00	00000000G		8F 01	DD 000A2 FB 000A8	PUSHL CALLS	#DSRINDEXS, INSVIRMEM	0750
				04	000AF	RET	#1, LIBSTOP	0766
				64 67	D4 000B0 C1 000B2	CLRL MOVL ADDL3	XTNCNT XTNSGP, XTNTAB	0767
6B	66	00000194		64 67	D4 000B2 D0 000B5	ADDL3 INCL	#404, XTNSGP, XPAGE	0769
				64	D0 000BD	INCL	XTNCNT	0775
	00	51		51	D0 000BF	MOVL	XTNCNT, R1	0776
52	B6	51		51	D0 000C2	MOVL	R1, XTNTAB	0777
		51		04	78 000C6	ASHL	#4, R1, R2	
		52		68	C0 000CA	ADDL2	XPAGE, R2	
		6A		52	D0 000CD	MOVL	R2, XTNLSP	
				50	D4 000D0	CLRL	I	0786
F6	6240		04 BC40	03 53	DD 000D2 F3 000D8	MOVL AOBLEQ	#PAGE[I], (R2)[I]	
	50			53	DD 000DC	MOVL	#3, I, 10\$	
00 B641				65	DD 000E1	MOVL ADDL2	R3, XTNTAB[R1]	0793
	50			04	C0 000E4	MOVL	XTNPOL, R0	0794
	50			60	D0 000E7	MOVL	#4, R0	
00 B840				53	D0 000EA	MOVL	(R0), R0	
				04	000EF	RET	R3, XTNLSX[R0]	0795

: Routine Size: 240 bytes. Routine Base: SCODES + 0000

: 291 0796 1

293 0797 1 GLOBAL ROUTINE XTNPAG (TRANSACTION) = !
294 0798 1
295 0799 1 ++
296 0800 1 FUNCTIONAL DESCRIPTION:
297 0801 1
298 0802 1 Given a transaction number, return the address of
299 0803 1 the corresponding page number.
300 0804 1
301 0805 1 FORMAL PARAMETERS:
302 0806 1
303 0807 1 TRANSACTION - The transaction number.
304 0808 1
305 0809 1 IMPLICIT INPUTS:
306 0810 1
307 0811 1
308 0812 1
309 0813 1
310 0814 1
311 0815 1
312 0816 1
313 0817 1
314 0818 1 ROUTINE VALUE:
315 0819 1 COMPLETION CODES:
316 0820 1 Address of the corresponding page number.
317 0821 1
318 0822 1 SIDE EFFECTS:
319 0823 1
320 0824 1
321 0825 1
322 0826 1 --
323 0827 1
324 0828 2 BEGIN
325 0829 2
326 0830 2
327 0831 2
328 0832 2
329 0833 2
330 0834 2
331 0835 2
332 0836 2
333 0837 2
334 0838 2
335 0839 2
336 0840 2
337 0841 2
338 0842 2
339 0843 2
340 0844 2
341 0845 2
342 0846 2
343 0847 2
344 0848 2
345 0849 2
346 0850 2
347 0851 2
348 0852 2
349 0853 2 LOCAL XTN_TABLE : REF XTNTAB_DEFINE,
XPAGEN : REF XPAGEN_DEFINE;
XTN_TABLE = GET_SEG_ADDR (XTNPOL, .I);

```

0854 4      XPAGEN = GET_SEG_ADDR (XTNPOL, .I) + XTN_XTNTAB_SIZE*XUPVAL;
0855 4
0856 4      INCR J FROM 1 TO .XTN_TABLE [0] DO
0857 5      BEGIN
0858 5
0859 5      IF
0860 5      THEN .TRANSACTION LEQ .XTN_TABLE [.J]
0861 5      RETURN XPAGEN [.J, SCT_TYP]
0862 5
0863 5
0864 4      END;
0865 4
0866 3      END;
0867 3
0868 2      END;
0869 2
L 0870 2      XIF XBLISS (BLISS32)
0871 2      XTHEN ! Signal errors for BLISS32
0872 2
0873 2      SIGNAL_STOP (INDEX$_NOREF, 0, INDEX$_BADLOGIC);
0874 2
U 0875 2      XELSE ! Use $XPO_PUT_MSG otherwise
0876 2
U 0877 2      $XPO_PUT_MSG (SEVERITY = FATAL,
U 0878 2      STRING = 'internal error - page reference not found.');
U 0879 2
0880 2      XFI
0881 2
0882 3      RETURN (
0883 3
0884 3      EXTERNAL
0885 3      PAGEN;
0886 3
0887 3      PAGEN)
0888 1      END; !End of XTNPAG

```

				.EXTRN	PAGEN	
56	04	007C 00000	.ENTRY	XTNPAG, Save R2,R3,R4,R5,R6		0797
		AC D0 00002	MOVL	TRANSACTION, R6		0831
		68 13 00006	BEQL	5\$		
54	00000000G	EF D0 00008	MOVL	XTNPOL, R4		0838
51		01 D0 0000F	MOVL	#1, I		0842
		3A 11 00012	BRB	4\$		
		56 D1 00014	CMPL	R6, AXTNLSX[I]		
		30 14 0001C	BGTR	4\$		
00000000GFF41		1\$: 53 0C A4 9E 0001E	MOVAB	12(R4), R3		0853
		52 51 01 78 00022	MOVL	R3, PADTAB		
50		55 FC A240 D0 00029	ASHL	#1, I, R0		
52	FC A340 00000194	8F C1 0002E	MOVL	-4(PADTAB)[R0], XTN_TABLE		0854
		53 D4 00038	ADDL3	#404, -4(PADTAB)[R0], XPAGEN		0856
		0E 11 0003A	CLRL	J		
6543		56 D1 0003C	BRB	3\$		0860
		08 14 00040	CMPL	R6, (XTN_TABLE)[J]		
		2\$: 56 D1 0003C	BGTR	3\$		

50	53	04	78	00042	ASHL	#4, J, RO	0862
	50	52	C0	00046	ADDL2	XPAGEN, RO	
EE	53	65	F3	0004A 39:	RET		
C1	51	A4	F3	0004E 48:	AOBLEQ	(XTN TABLE), J, 2\$	0857
	04	0000000G	8F	DD 00053	AOBLEQ	4(R4), I, 1\$	0838
		0000000G	7E	D4 00059	PUSHL	#DSRINDEX\$_BADLOGIC	0873
		0000000G	8F	DD 0005B	CLRL	-(SP)	
	00	0000000G	03	FB 00061	PUSHL	#DSRINDEX\$ NOREF	
	50	50 0000000G	EF	9E 00068	CALLS	#3, LIB\$STOP	
			04	0006F	MOVAB	PAGEN, RO	
			50	D4 00070 58:	RET		0882
			04	00072	CLRL	RO	0888

: Routine Size: 115 bytes, Routine Base: \$CODE\$ + 00F0

385	0889	1		
386	0890	1	END	
387	0891	1		
388	0892	0	ELUDOM	

!End of module

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	355	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Symbols -----		Pages Mapped	Processing Time
	Total	Loaded		
\$_255\$DUA28:[SYSLIB]XPORT.L32:1	590	0	0	00:00.1

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:NDXXTN/OBJ=OBJ\$:NDXXTN MSRC\$:NDXXTN/UPDATE=(ENH\$:NDXXTN)

Size:	355	code + 0 data bytes
Run Time:	00:11.1	
Elapsed Time:	00:25.2	
Lines/CPU Min:	4830	

NDXXTN
V04-000

N 3
16-Sep-1984 01:16:01 VAX-11 Bliss-32 V4.0-742

Page 28

Lexemes/CPU-Min: 12043
Memory Used: 88 pages
Compilation Complete

NM
V04-

0346 AH-BT13A-SE
VAX/VMS V4.0

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NEWPAG
LIS

NODOPX
LIS

OFI
LIS

NOXURS
LIS

OUTTXT
LIS

NOTE
LIS

OUTLIN
LIS

NM
LIS

PACK
LIS

NOXXTN
LIS

OUTXHR
LIS

OUTCHA
LIS

OUTHOR
LIS